The Iso-Cart takes nondestructive measurements of contaminated material without disturbing the waste.

Discovery on Wheels

ISO-CART™ Gamma Spectrometer System

Before removing old sewage piping beneath Auxiliary Reactor Area (ARA)-23, surface soils needed to be excavated. To safeguard against the spread of possible contamination and to protect workers, Waste Area Group 5 at ARA-23 project managers needed to analyze the soils surrounding the sewer pipes to determine the level of possible contamination. In FY 2001, the **ISO-CART ™ Gamma Spectrometer System** provided the project with an accurate method of performing in situ field gamma measurements in the soil. Using its highly sensitive detectors and analyzer, the ISO-CART ™

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The ISO-CART ™ Gamma Spectrometer System provides an accurate method of performing in situ field gamma measurements in the soil.

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takes non-destructive measurements of contaminated material without disturbing the waste. The readings are transmitted to a laptop computer and displayed in either two- or three-dimensional maps and pictures. The adjustable cart positions the detector to obtain accurate readings. Relying on the ISO-CART's ™ user-friendly features, workers can use it in a variety of situations. Because the cart holds the entire detector system and is remotely controlled, it reduces the operator's exposure to contaminated material. The **ISO-CART™ Gamma Spectrometer System** is designed for reliable operation in harsh environmental conditions and is simple to operate and easy to maneuver.

Benefits:

- Accelerates schedule with faster analytical results
- Reduces worker exposure to contaminated material
- Avoids sampling and disturbing waste and minimizes spread of contamination
- Increases worker safety through remotely-controlled operation

The Iso-Cart is designed for reliable operation in harsh environmental conditions.

Iso-Cart is confirming a suspect contamination source.

Two versions of the Iso-Cart. The Iso-Cart used at ARA-23 is on the right.